

RAW SEQUENCE LISTING

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Application Serial Number: 10/552,156
Source: PCT
Date Processed by STIC: 10/24/2005

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DATE: 10/24/2005

PATENT APPLICATION: US/10/552,156

TIME: 10:46:43

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 5 <120> TITLE OF INVENTION: S. pneumoniae antigens
 7 <130> FILE REFERENCE: R42992
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/552,156
 C--> 10 <141> CURRENT FILING DATE: 2005-10-11
 12 <150> PRIOR APPLICATION NUMBER: EP03450087.6
 13 <151> PRIOR FILING DATE: 2003-04-15
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441 actacagata gcatgcctgc tgacaccatg acaagttcta ccaacacgat ggcagggtgaa 2400
443 aacatggctg cttctgctaa caagatgtct gatacgatga tgtcagagga taaagctatg 2460
445 ctaccaataa ctggtgagac tcaaacatca atggcaagta ttggtttcct tgggcttgcg 2520
447 cttgcagggt tactcggtgg tctaggtttg aaaaacaaaa aagaagaaaa c 2571
450 <210> SEQ ID NO: 6
451 <211> LENGTH: 585
452 <212> TYPE: DNA
453 <213> ORGANISM: Streptococcus pneumoniae
455 <400> SEQUENCE: 6
456 atgaaatcaa taactaaaaa gattaaagca actcttgacg gagtagctgc cttgtttgca 60
458 gtatttgcct catcatttgt atctgctcaa gaatcatcaa cttacactgt taaagaaggt 120

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/552,156

DATE: 10/24/2005
TIME: 10:46:44

Input Set : A:\Sequence Listing for WO.2004.092209.TXT
Output Set: N:\CRF4\10242005\J552156.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:297; N Pos. 491,492,493,494,495,496,497,498,499,500,501,502,503,504
 Seq#:297; N Pos. 505,506,507,508,509,510,511,512,513,514,515,516,517,518
 Seq#:297; N Pos. 519,520,521,522,523,524,525,526,527,528,529,530
 Seq#:298; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
 Seq#:298; N Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
 Seq#:299; N Pos. 757,758,759,760,761,762,763,764,765,766,767,768,769,770
 Seq#:299; N Pos. 771,772,773,774,775,776,777,778,779,780,781,782,783,784
 Seq#:299; N Pos. 785,786,787,788,789,790,791,792,793,794,795,796
 Seq#:300; N Pos. 682,683,684,685,686,687,688,689,690,691,692,693,694,695
 Seq#:300; N Pos. 696,697,698,699,700,701,702,703,704,705,706,707,708,709
 Seq#:300; N Pos. 710,711,712,713,714,715,716,717,718,719,720,721
 Seq#:301; N Pos. 722,723,724,725,726,727,728,729,730,731,732,733,734,735
 Seq#:301; N Pos. 736,737,738,739,740,741,742,743,744,745,746,747,748,749
 Seq#:301; N Pos. 750,751,752,753,754,755,756,757,758,759,760,761
 Seq#:302; N Pos. 742,743,744,745,746,747,748,749,750,751,752,753,754,755
 Seq#:302; N Pos. 756,757,758,759,760,761,762,763,764,765,766,767,768,769
 Seq#:302; N Pos. 770,771,772,773,774,775,776,777,778,779,780,781
 Seq#:303; N Pos. 669,670,671,672,673,674,675,676,677,678,679,680,681,682
 Seq#:303; N Pos. 683,684,685,686,687,688,689,690,691,692,693,694,695,696
 Seq#:303; N Pos. 697,698,699,700,701,702,703,704,705,706,707,708
 Seq#:312; Xaa Pos. 164,165,166,167,168,169,170,171,172,173,174,175,176,177
 Seq#:312; Xaa Pos. 178,179,180,181,182,183,184,185,186,187,188,189,190,191
 Seq#:312; Xaa Pos. 192,193,194,195,196,197,198,199,200,201,202,203,204,205
 Seq#:312; Xaa Pos. 206,207,208,209,210,211,212,213
 Seq#:313; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
 Seq#:313; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
 Seq#:313; Xaa Pos. 42,43,44,45,46,47,48,49,50,51
 Seq#:314; Xaa Pos. 253,254,255,256,257,258,259,260,261,262,263,264,265,266
 Seq#:314; Xaa Pos. 267,268,269,270,271,272,273,274,275,276,277,278,279,280
 Seq#:314; Xaa Pos. 281,282,283,284,285,286,287,288,289,290,291,292,293,294
 Seq#:314; Xaa Pos. 295,296,297,298,299,300,301,302
 Seq#:315; Xaa Pos. 228,229,230,231,232,233,234,235,236,237,238,239,240,241
 Seq#:315; Xaa Pos. 242,243,244,245,246,247,248,249,250,251,252,253,254,255
 Seq#:315; Xaa Pos. 256,257,258,259,260,261,262,263,264,265,266,267,268,269
 Seq#:315; Xaa Pos. 270,271,272,273,274,275,276,277
 Seq#:316; Xaa Pos. 241,242,243,244,245,246,247,248,249,250,251,252,253,254
 Seq#:316; Xaa Pos. 255,256,257,258,259,260,261,262,263,264,265,266,267,268
 Seq#:316; Xaa Pos. 269,270,271,272,273,274,275,276,277,278,279,280,281,282
 Seq#:316; Xaa Pos. 283,284,285,286,287,288,289,290
 Seq#:317; Xaa Pos. 248,249,250,251,252,253,254,255,256,257,258,259,260,261
 Seq#:317; Xaa Pos. 262,263,264,265,266,267,268,269,270,271,272,273,274,275
 Seq#:317; Xaa Pos. 276,277,278,279,280,281,282,283,284,285,286,287,288,289
 Seq#:317; Xaa Pos. 290,291,292,293,294,295,296,297
 Seq#:318; Xaa Pos. 223,224,225,226,227,228,229,230,231,232,233,234,235,236

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/24/2005
PATENT APPLICATION: US/10/552,156 TIME: 10:46:44

Input Set : A:\Sequence Listing for WO.2004.092209.TXT
Output Set: N:\CRF4\10242005\J552156.raw

Seq#:318; Xaa Pos. 237,238,239,240,241,242,243,244,245,246,247,248,249,250

Seq#:318; Xaa Pos. 251,252,253,254,255,256,257,258,259,260,261,262,263,264

Seq#:318; Xaa Pos. 265,266,267,268,269,270,271,272

VERIFICATION SUMMARY

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,156

TIME: 10:46:44

Input Set : A:\Sequence Listing for WO.2004.092209.TXT

Output Set: N:\CRF4\10242005\J552156.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:24828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297 after pos.:480
L:24878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:0
L:24946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299 after pos.:720
M:341 Repeated in SeqNo=299
L:25020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300 after pos.:660
M:341 Repeated in SeqNo=300
L:25092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301 after pos.:720
L:25166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:720
M:341 Repeated in SeqNo=302
L:25236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:303 after pos.:660
L:26569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312 after pos.:160
M:341 Repeated in SeqNo=312
L:26679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313 after pos.:0
M:341 Repeated in SeqNo=313
L:26833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:314 after pos.:240
M:341 Repeated in SeqNo=314
L:27003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315 after pos.:224
M:341 Repeated in SeqNo=315
L:27169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316 after pos.:240
M:341 Repeated in SeqNo=316
L:27339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:317 after pos.:240
M:341 Repeated in SeqNo=317
L:27497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:208
M:341 Repeated in SeqNo=318